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PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION *US/08/934,367*

DATE: 02/19/98
TIME: 11:13:37

INPUT SET: S23537.raw

> This Raw Listing contains the General
> Information Section and up to the first 5 pages.

#4

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 1                              SEQUENCE LISTING
 2
 3   (1)    General Information:
 4
 5          (i) APPLICANT: Needleman, Philip
 6                          Glenn, Kevin
 7
 8         (ii) TITLE OF INVENTION: An Immunological Process and Constructs
 9                  for Increasing the HDL Cholesterol Concentration by DNA
10                  Vaccination
11
12        (iii) NUMBER OF SEQUENCES: 52
13
14         (iv) CORRESPONDENCE ADDRESS:
15                  (A) ADDRESSEE: Welsh & Katz, Ltd.
16                  (B) STREET: 120 South Riverside Plaza, 22nd Floor
17                  (C) CITY: Chicago
18                  (D) STATE: IL
19                  (E) COUNTRY: USA
20                  (F) ZIP: 60606
21
22          (v) COMPUTER READABLE FORM:
23                  (A) MEDIUM TYPE: Floppy disk
24                  (B) COMPUTER: IBM PC compatible
25                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27
28         (vi) CURRENT APPLICATION DATA:
29                  (A) APPLICATION NUMBER:
30                  (B) FILING DATE:
31                  (C) CLASSIFICATION:
32
33       (viii) ATTORNEY/AGENT INFORMATION:
34                  (A) NAME: Gamson Ph.D., Edward P.
35                  (B) REGISTRATION NUMBER: 29,381
36                  (C) REFERENCE/DOCKET NUMBER: MON-103.0 6221/69666
37
38         (ix) TELECOMMUNICATION INFORMATION:
39                  (A) TELEPHONE: (312)655-1500
40                  (B) TELEFAX: (312)655-1501
41
42
43   (2) INFORMATION FOR SEQ ID NO:1:
44
45          (i) SEQUENCE CHARACTERISTICS:
46                  (A) LENGTH: 1431 base pairs
```

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47              (B) TYPE: nucleic acid
48              (C) STRANDEDNESS: single
49              (D) TOPOLOGY: linear
50
51        (ii) MOLECULE TYPE: DNA (genomic)
52
53
54      (viii) POSITION IN GENOME:
55              (C) UNITS: bp
56
57
58         (x) PUBLICATION INFORMATION:
59              (A) AUTHORS: Drayna, Dennis
60                           Jarnagin, Alisha Stephens
61                           McLean, John
62                           Henzel, William
63                           Kohr, William
64                           Fielding, Christopher
65                           Lawn, Richard
66              (B) TITLE: Cloning and sequencing of human cholesteryl
67                  ester transfer protein cDNA
68              (C) JOURNAL: Nature
69              (D) VOLUME: 327
70              (F) PAGES: 632-634
71              (G) DATE: June 18-1987
72
73         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
74
75   TGCTCCAAAG GCACCTCGCA CGAGGCAGGC ATCGTGTGCC GCATCACCAA GCCTGCCCTC        60
76
77   CTGGTGTTGA ACCACGAGAC TGCCAAGGTC ATCCAGACCG CCTTCCAGCG AGCCAGCTAC       120
78
79   CCAGATATCA CGGGCGAGAA GGCCATGATG CTCCTTGGCC AAGTCAAGTA TGGGTTGCAC       180
80
81   AACATCCAGA TCAGCCACTT GTCCATCGCC AGCAGCCAGG TGGAGCTGGT GGAAGCCAAG       240
82
83   TCCATTGATG TCTCCATTCA GAACGTGTCT GTGGTCTTCA AGGGGACCCT GAAGTATGGC       300
84
85   TACACCACTG CCTGGTGGCT GGGTATTGAT CAGTCCATTG ACTTCGAGAT CGACTCTGCC       360
86
87   ATTGACCTCC AGATCAACAC ACAGCTGACC TGTGACTCTG GTAGAGTGCG GACCGATGCC       420
88
89   CCTGACTGCT ACCTGTCTTT CCATAAGCTG CTCCTGCATC TCCAAGGGGA GCGAGAGCCT       480
90
91   GGGTGGATCA AGCAGCTGTT CACAAATTTC ATCTCCTTCA CCCTGAAGCT GGTCCTGAAG       540
92
93   GGACAGATCT GCAAAGAGAT CAACGTCATC TCTAACATCA TGGCCGATTT TGTCCAGACA       600
94
95   AGGGCTGCCA GCATCCTTTC AGATGGAGAC ATTGGGGTGG ACATTTCCCT GACAGGTGAT       660
96
97   CCCGTCATCA CAGCCTCCTA CCTGGAGTCC CATCACAAGG GTCATTTCAT CTACAAGAAT       720
98
99   GTCTCAGAGG ACCTCCCCCT CCCCACCTTC TCGCCCACAC TGCTGGGGGA CTCCCGCATG       780
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100
101   CTGTACTTCT GGTTCTCTGA GCGAGTCTTC CACTCGCTGG CCAAGGTAGC TTTCCAGGAT      840
102
103   GGCCGCCTCA TGCTCAGCCT GATGGGAGAC GAGTTCAAGG CAGTGCTGGA GACCTGGGGC      900
104
105   TTCAACACCA ACCAGGAAAT CTTCCAAGAG GTTGTCGGCG GCTTCCCCAG CCAGGCCCAA      960
106
107   GTCACCGTCC ACTGCCTCAA GATGCCCAAG ATCTCCTGCC AAAACAAGGG AGTCGTGGTC     1020
108
109   AATTCTTCAG TGATGGTGAA ATTCCTCTTT CCACGCCCAG ACCAGCAACA TTCTGTAGCT     1080
110
111   TACACATTTG AAGAGGATAT CGTGACTACC GTCCAGGCCT CCTATTCTAA GAAAAAGCTC     1140
112
113   TTCTTAAGCC TCTTGGATTT CCAGATTACA CCAAAGACTG TTTCCAACTT GACTGAGAGC     1200
114
115   AGCTCCGAGT CCATCCAGAG CTTCCTGCAG TCAATGATCA CCGCTGTGGG CATCCCTGAG     1260
116
117   GTCATGTCTC GGCTCGAGGT AGTGTTTACA GCCCTCATGA ACAGCAAAGG CGTGAGCCTC     1320
118
119   TTCGACATCA TCAACCCTGA GATTATCACT CGAGATGGCT TCCTGCTGCT GCAGATGGAC     1380
120
121   TTTGGCTTCC CTGAGCACCT GCTGGTGGAT TTCCTCCAGA GCTTGAGCTA G             1431
122
123   (2) INFORMATION FOR SEQ ID NO:2:
124
125       (i) SEQUENCE CHARACTERISTICS:
126           (A) LENGTH: 20 amino acids
127           (B) TYPE: amino acid
128           (C) STRANDEDNESS: single
129           (D) TOPOLOGY: linear
130
131      (ii) MOLECULE TYPE: peptide
132
133
134
135
136      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
137
138       Glu Ile Phe Gln Glu Leu Ser Arg Gly Leu Pro Thr Gly Gln Ala Gln
139       1               5                   10                  15
140
141       Val Ala Val His
142                   20
143
144   (2) INFORMATION FOR SEQ ID NO:3:
145
146       (i) SEQUENCE CHARACTERISTICS:
147           (A) LENGTH: 20 amino acids
148           (B) TYPE: amino acid
149           (C) STRANDEDNESS: single
150           (D) TOPOLOGY: linear
151
152      (ii) MOLECULE TYPE: peptide
```

153
154
155
156
157
158

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

159
160

Val Ala Val Thr Phe Arg Phe Pro Arg Pro Asp Gly Arg Glu Ala Val
1   5   10   15

161
162
163

Ala Tyr Arg Phe
          20

164
165

(2) INFORMATION FOR SEQ ID NO:4:

166
167

(i) SEQUENCE CHARACTERISTICS:

168
169
170
171
172

(A) LENGTH: 22 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

173

(ii) MOLECULE TYPE: peptide

174
175
176
177
178

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

179
180
181

Leu Leu Leu Gln Met Asp Phe Gly Phe Pro Lys His Leu Leu Val Asp
1   5   10   15

182
183

Phe Leu Gln Ser Leu Ser
              20

184
185
186

(2) INFORMATION FOR SEQ ID NO:5:

187
188

(i) SEQUENCE CHARACTERISTICS:

189
190
191
192
193

(A) LENGTH: 20 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

194

(ii) MOLECULE TYPE: peptide

195
196
197
198
199

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

200
201
202

Thr Thr Val Gln Ala Ser Tyr Ser Gln Lys Lys Leu Phe Leu His Leu
1   5   10   15

203
204

Leu Asp Phe Gln
          20

205

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206
207    (2) INFORMATION FOR SEQ ID NO:6:
208
209        (i) SEQUENCE CHARACTERISTICS:
210            (A) LENGTH: 20 amino acids
211            (B) TYPE: amino acid
212            (C) STRANDEDNESS: single
213            (D) TOPOLOGY: linear
214
215        (ii) MOLECULE TYPE: peptide
216
217
218
219
220        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
221
222        Leu Leu Leu His Leu Gln Gly Glu Arg Glu Pro Gly Trp Leu Lys Gln
223        1               5                   10                  15
224
225        Leu Phe Thr Asn
226                    20
227
228    (2) INFORMATION FOR SEQ ID NO:7:
229
230        (i) SEQUENCE CHARACTERISTICS:
231            (A) LENGTH: 20 amino acids
232            (B) TYPE: amino acid
233            (C) STRANDEDNESS: single
234            (D) TOPOLOGY: linear
235
236        (ii) MOLECULE TYPE: peptide
237
238
239
240
241        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
242
243        Asp Val Ser Gly Glu Arg Ala Val Met Leu Leu Gly Arg Val Lys Tyr
244        1               5                   10                  15
245
246        Gly Leu His Asn
247                    20
248
249    (2) INFORMATION FOR SEQ ID NO:8:
250
251        (i) SEQUENCE CHARACTERISTICS:
252            (A) LENGTH: 20 amino acids
253            (B) TYPE: amino acid
254            (C) STRANDEDNESS: single
255            (D) TOPOLOGY: linear
256
257        (ii) MOLECULE TYPE: peptide
258
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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/08/934,367*

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